



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/716,063  
Two

Source:

Date Processed by STIC:

3/25/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE - SEE BELOW FOR ADDRESS.

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
TIME: 09:10:42

Input Set : A:\Seq.Lst  
Output Set: N:\CRF4\03252004\J716063.raw

3 <110> APPLICANT: BRUCHEZ, Marcel P.  
4 LAI, Jennifer  
5 PHILLIPS, Vince  
6 WATSON, Andrew R.  
7 WONG, Edith  
9 <120> TITLE OF INVENTION: LOOP PROBE HYBRIDIZATION ASSAY FOR POLYNUCLEOTIDE ANALYSIS  
11 <130> FILE REFERENCE: 5100-0703.01  
13 <140> CURRENT APPLICATION NUMBER: 10/716,063  
14 <141> CURRENT FILING DATE: 2003-11-17  
16 <150> PRIOR APPLICATION NUMBER: 09/815,510  
17 <151> PRIOR FILING DATE: 2001-03-22  
19 <150> PRIOR APPLICATION NUMBER: 60/191,227  
20 <151> PRIOR FILING DATE: 2000-03-22  
22 <150> PRIOR APPLICATION NUMBER: 60/237,000  
23 <151> PRIOR FILING DATE: 2000-09-29  
25 <160> NUMBER OF SEQ ID NOS: 24  
27 <170> SOFTWARE: PatentIn version 3.2  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 25  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Artificial  
34 <220> FEATURE:  
35 <223> OTHER INFORMATION: mbD7S8A - *give source of genetic material*  
38 <220> FEATURE:  
39 <221> NAME/KEY: misc\_feature  
40 <222> LOCATION: (23)..(23)  
41 <223> OTHER INFORMATION: N = (biotin dT)  
43 <400> SEQUENCE: 1  
W--> 44 gcagcccttt cccggaatgc gcngc 25  
47 <210> SEQ ID NO: 2  
48 <211> LENGTH: 30  
49 <212> TYPE: DNA  
50 <213> ORGANISM: Artificial  
52 <220> FEATURE:  
53 <223> OTHER INFORMATION: cmb D7S8A - *same prn*  
55 <400> SEQUENCE: 2  
56 tatgaccaggc attccggaa aggaaagaaa 30  
59 <210> SEQ ID NO: 3  
60 <211> LENGTH: 27  
61 <212> TYPE: DNA  
62 <213> ORGANISM: Artificial  
64 <220> FEATURE:  
65 <223> OTHER INFORMATION: mbWNT5A - *same prn*

*Does Not Comply  
Corrected Diskette Needed  
(Pg. 1-5)*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
TIME: 09:10:42

Input Set : A:\Seq.Lst  
Output Set: N:\CRF4\03252004\J716063.raw

68 <220> FEATURE:  
69 <221> NAME/KEY: misc\_feature  
70 <222> LOCATION: (25)..(25)  
71 <223> OTHER INFORMATION: N = (biotin dT)  
73 <400> SEQUENCE: 3  
*Same errors*

W--> 74 gcaacgcacaa actggtccac gacgngc 27  
77 <210> SEQ ID NO: 4  
78 <211> LENGTH: 30  
79 <212> TYPE: DNA  
80 <213> ORGANISM: Artificial  
82 <220> FEATURE:  
83 <223> OTHER INFORMATION: *cmbWNT5A*  
85 <400> SEQUENCE: 4  
86 acggagatcg tggaccagtt tgtgtgcaag 30  
89 <210> SEQ ID NO: 5  
90 <211> LENGTH: 27  
91 <212> TYPE: DNA  
92 <213> ORGANISM: Artificial  
94 <220> FEATURE:  
95 <223> OTHER INFORMATION: *mbG*  
98 <220> FEATURE:  
99 <221> NAME/KEY: misc\_feature  
100 <222> LOCATION: (24)..(24)  
101 <223> OTHER INFORMATION: N = (biotin dT)  
103 <400> SEQUENCE: 5  
*Same errors*

W--> 104 gcgagccacc aaagatgata tgcncgc 27  
107 <210> SEQ ID NO: 6  
108 <211> LENGTH: 30  
109 <212> TYPE: DNA  
110 <213> ORGANISM: Artificial  
112 <220> FEATURE:  
113 <223> OTHER INFORMATION: *cmbG*  
115 <400> SEQUENCE: 6  
116 aaagaaaata tcatcttgg tggccat 30  
119 <210> SEQ ID NO: 7  
120 <211> LENGTH: 27  
121 <212> TYPE: DNA  
122 <213> ORGANISM: Artificial  
124 <220> FEATURE:  
125 <223> OTHER INFORMATION: *mbT*  
128 <220> FEATURE:  
129 <221> NAME/KEY: misc\_feature  
130 <222> LOCATION: (24)..(24)  
131 <223> OTHER INFORMATION: N = (biotin dT)  
133 <400> SEQUENCE: 7  
*Same errors*

W--> 134 gcgagccacc aaatatgata tgcncgc 27  
137 <210> SEQ ID NO: 8  
138 <211> LENGTH: 30  
139 <212> TYPE: DNA

**RAW SEQUENCE LISTING**  
 PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
 TIME: 09:10:42

Input Set : A:\Seq.Lst  
 Output Set: N:\CRF4\03252004\J716063.raw

140 <213> ORGANISM: Artificial  
 142 <220> FEATURE:  
 143 <223> OTHER INFORMATION: *cmbT*  
 145 <400> SEQUENCE: 8  
 146 aaagaaaata tcatattgg tgtttcctat 30  
 149 <210> SEQ ID NO: 9  
 150 <211> LENGTH: 25  
 151 <212> TYPE: DNA  
 152 <213> ORGANISM: Artificial  
 154 <220> FEATURE:  
 155 <223> OTHER INFORMATION: *LDLr Loop A-5*  
 157 <400> SEQUENCE: 9  
 158 cgagcatatg gtcctcttcc gctcg 25  
 161 <210> SEQ ID NO: 10  
 162 <211> LENGTH: 25  
 163 <212> TYPE: DNA  
 164 <213> ORGANISM: Artificial  
 166 <220> FEATURE:  
 167 <223> OTHER INFORMATION: *LDLr Loop B-5*  
 169 <400> SEQUENCE: 10  
 170 cgagcatatg gttctcttcc gctcg 25  
 173 <210> SEQ ID NO: 11  
 174 <211> LENGTH: 31  
 175 <212> TYPE: DNA  
 176 <213> ORGANISM: Artificial  
 178 <220> FEATURE:  
 179 <223> OTHER INFORMATION: *LDLr test A*  
 181 <400> SEQUENCE: 11  
 182 cccagtgtgg aagaggacca tattcctctgg g 31  
 185 <210> SEQ ID NO: 12  
 186 <211> LENGTH: 31  
 187 <212> TYPE: DNA  
 188 <213> ORGANISM: Artificial  
 190 <220> FEATURE:  
 191 <223> OTHER INFORMATION: *LDLr test B*  
 193 <400> SEQUENCE: 12  
 194 cccagtgtgg aagagaacca tattcctctgg g 31  
 197 <210> SEQ ID NO: 13  
 198 <211> LENGTH: 20  
 199 <212> TYPE: DNA  
 200 <213> ORGANISM: Artificial  
 202 <220> FEATURE:  
 203 <223> OTHER INFORMATION: *LDLrsb*  
 205 <400> SEQUENCE: 13  
 206 tcacaggttc cgatgtcaac 20  
 209 <210> SEQ ID NO: 14  
 210 <211> LENGTH: 19  
 211 <212> TYPE: DNA  
 212 <213> ORGANISM: Artificial

*Some error*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
TIME: 09:10:42

Input Set : A:\Seq.Lst  
Output Set: N:\CRF4\03252004\J716063.raw

214 <220> FEATURE:  
215 <223> OTHER INFORMATION: LDLrab  
217 <400> SEQUENCE: 14  
218 cagggtggtc ctetcacac 19  
221 <210> SEQ ID NO: 15  
222 <211> LENGTH: 151  
223 <212> TYPE: DNA  
224 <213> ORGANISM: Artificial  
226 <220> FEATURE:  
227 <223> OTHER INFORMATION: Sequence spanning the D7S8 locus upper strand  
230 <220> FEATURE:  
231 <221> NAME/KEY: misc\_feature  
232 <222> LOCATION: (50)..(50)  
233 <223> OTHER INFORMATION: X Location of SNP  
234 ~~X=C/G~~ Allele A  
235 ~~X=T/A~~ Allele B  
237 <400> SEQUENCE: 15  
W--> 238 ctagggatgt tcctgtctca gggaccctga ccttattgtc cccctttccn ggaatgctgg 60  
240 tcctgacaca ataataaa ctctgagaag gcagccattt ttgtatgtt tactccaggc 120  
242 tacttctcaa ctcgcagaac agggcttggc a 151  
245 <210> SEQ ID NO: 16  
246 <211> LENGTH: 151  
247 <212> TYPE: DNA  
248 <213> ORGANISM: Artificial  
250 <220> FEATURE:  
251 <223> OTHER INFORMATION: Sequence spanning the D7S8 locus lower strand  
254 <220> FEATURE:  
255 <221> NAME/KEY: misc\_feature  
256 <222> LOCATION: (102)..(102)  
257 <223> OTHER INFORMATION: X: location of SNP  
258 ~~X=C/G~~ Allele A  
259 ~~X=T/A~~ Allele B  
261 <400> SEQUENCE: 16  
262 tgccaagccc tgttctgcga gttgagaagt agctggagt aaagcataca aaaatggctg 60  
W--> 264 ctttctcaga gcttatatta ttgtgtcagg accagcattc cnggaaaggg gagcaataag 120  
266 gtcagggtcc ctgagacagg aacatcccta g 151  
269 <210> SEQ ID NO: 17  
270 <211> LENGTH: 19  
271 <212> TYPE: DNA  
272 <213> ORGANISM: Artificial  
274 <220> FEATURE:  
275 <223> OTHER INFORMATION: 76bp fragment PCR forward primer  
277 <400> SEQUENCE: 17 19  
278 gggaccctga ccttattgc  
281 <210> SEQ ID NO: 18  
282 <211> LENGTH: 19  
283 <212> TYPE: DNA  
284 <213> ORGANISM: Artificial  
286 <220> FEATURE:

please use "N" instead of "X",  
please explain which nucleotide represents  
Allele A & B,  
please use "N" instead of "X",  
please explain which nucleotide represents  
Allele A & B.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
TIME: 09:10:42

Input Set : A:\Seq.Lst  
Output Set: N:\CRF4\03252004\J716063.raw

287 <223> OTHER INFORMATION: 76bp fragment PCR reverse primer  
289 <400> SEQUENCE: 18  
290 tggctgcctt ctcagagct 19  
293 <210> SEQ ID NO: 19  
294 <211> LENGTH: 21  
295 <212> TYPE: DNA  
296 <213> ORGANISM: Artificial  
298 <220> FEATURE:  
299 <223> OTHER INFORMATION: 151bp fragment PCR forward primer  
301 <400> SEQUENCE: 19  
302 ctagggatgt tcctgtctca g 21  
305 <210> SEQ ID NO: 20  
306 <211> LENGTH: 20  
307 <212> TYPE: DNA  
308 <213> ORGANISM: Artificial  
310 <220> FEATURE:  
311 <223> OTHER INFORMATION: 151bp fragment PCR reverse primer  
313 <400> SEQUENCE: 20  
314 tgccaagccc tgttctgcga 20  
317 <210> SEQ ID NO: 21  
318 <211> LENGTH: 25  
319 <212> TYPE: DNA  
320 <213> ORGANISM: Artificial  
322 <220> FEATURE:  
323 <223> OTHER INFORMATION: mbD7S8B *same error*  
326 <220> FEATURE:  
327 <221> NAME/KEY: misc\_feature  
328 <222> LOCATION: (23)..(23)  
329 <223> OTHER INFORMATION: N = (biotin dT)  
331 <400> SEQUENCE: 21  
W--> 332 gcagcccttt cctggaatgc gcngc 25  
335 <210> SEQ ID NO: 22  
336 <211> LENGTH: 30  
337 <212> TYPE: DNA  
338 <213> ORGANISM: Artificial  
340 <220> FEATURE:  
341 <223> OTHER INFORMATION: Complementary D7S8B *same error*  
343 <400> SEQUENCE: 22  
344 tatgaccagc attccagggaa aggaaagaaa 30  
347 <210> SEQ ID NO: 23  
348 <211> LENGTH: 24  
349 <212> TYPE: DNA  
350 <213> ORGANISM: Artificial  
352 <220> FEATURE:  
353 <223> OTHER INFORMATION: AminoD7S8A *same error*  
355 <400> SEQUENCE: 23  
356 ttttttacca gcatccggg aaag 24  
359 <210> SEQ ID NO: 24  
360 <211> LENGTH: 24

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
TIME: 09:10:43

Input Set : A:\Seq.Lst  
Output Set: N:\CRF4\03252004\J716063.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 23  
Seq#:3; N Pos. 25  
Seq#:5; N Pos. 24  
Seq#:7; N Pos. 24  
Seq#:15; N Pos. 50  
Seq#:16; N Pos. 102  
Seq#:21; N Pos. 23

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24

**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/10/716,063**

DATE: 03/25/2004

TIME: 09:10:43

Input Set : **A:\Seq.Lst**

Output Set: **N:\CRF4\03252004\J716063.raw**

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0